GSI-191:
Expectations and Challenges
from a PRA Perspective
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Background

- STP submitted an alternative methodology to address Generic Letter 2004-02
- Will use the guidance in RG 1.174 to support the alternative methodology
- Will require modification of the plant's current licensing basis
- Revised licensing basis needs an approach for demonstrating sump screen and in-vessel operability related to debris

NRC Expectations

- Appropriate consideration of uncertainty will be given in the analysis, including a program of monitoring, feedback, and corrective action
- The analysis will contain appropriate safety margin to justify the potential debris sources and will be able to address new information
- Could be a best-estimate with uncertainties approach that demonstrates the sump screen and/or the core do not clog

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Defense-in-Depth Expectations	
 The NRC expects that the alternative methodology will need to demonstrate that adequate defense-in-depth is maintained Demonstration of adequate defense-in-depth may credit operator actions Examples from the March 2012 NEI Letter Differential pressure measurement across strainer Capability to backwash 	
Challenges The review of proposed distributions and propagation of their associated uncertainties will be a challenge for the licensee and the staff Commission SRM directed staff to revise 10 CFR 50.46c rulemaking to allow risk-	
informed alternative approach so that an exemption is not required	